

CLAIMS

1. A method for producing fibre-reinforced plastic components made of dry fibre composite preforms by means of an injection method for injecting matrix material, involving the following steps:
 - 1.1 Arranging the fibre composite preform (1) on a tool (3), with a flow promoting device (15) being arranged on one surface (11) of the preform (1).
 - 1.2 Creating a first space (10) by means of a gas-permeable and matrix-material-impermeable membrane (7) arranged at least on one side around the preform (1), whereby matrix material can be fed into the first space (10).
 - 1.3 Creating a second space (27) adjacent to the first space (25), with the second space (27) being delimited from the surroundings by means of a foil (19) which is impermeable to gaseous material and matrix material, with said foil (19) being sealed off from the tool (3).
 - 1.4 Removal by suction, of air from the second space (27), with matrix material being sucked from the reservoir into the evacuated first space (10) and with the flow promoting device (15) causing distribution of the matrix material above the surface (11) of the preform (1) facing said flow promoting device (15), thus causing the matrix material to penetrate the preform (1) vertically.
2. A device for producing fibre-reinforced plastic components made of dry fibre composite preforms by means of an injection method for injecting matrix material,

comprising a tool (3) for arranging the fibre composite preform (1), a gas-permeable and matrix-material-impermeable membrane (7) arranged at least on one side around the preform (1) creating a first space (10) into which matrix material can be fed; a flow promoting device (15) arranged on a surface (11) of the preform (1); a second space (27), sealed off from tool (3), adjacent to the first space (25), which second space (27) is delimited from the surroundings by means of a foil (19) which is impermeable to gaseous material and matrix material; with removal by suction, of air from the second space (27) resulting in matrix material being sucked from the reservoir into the evacuated first space (10) and with the flow promoting device (15) causing distribution of the matrix material above the surface (11) of the preform (1) facing said flow promoting device (15), thus causing the matrix material to penetrate the preform (1) vertically.